

"LAB #9"

COURSE:

SOFTWARE CONSTRUCTION AND DEVELOPMENT LAB

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(2021-BSE-032)

TASK:

Make a form and make database connection to form

CREATE TABLE AND ITS COLUMNS:

```
Limit to 1000 rows

1  ○ CREATE TABLE reg_form (

ID int NOT NULL,

name varchar(200) NOT NULL,

email varchar(200),

password VARCHAR(200),

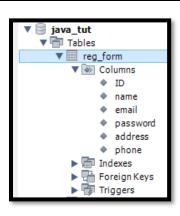
phone VARCHAR(200),

phone VARCHAR(200),

PRIMARY KEY (ID)

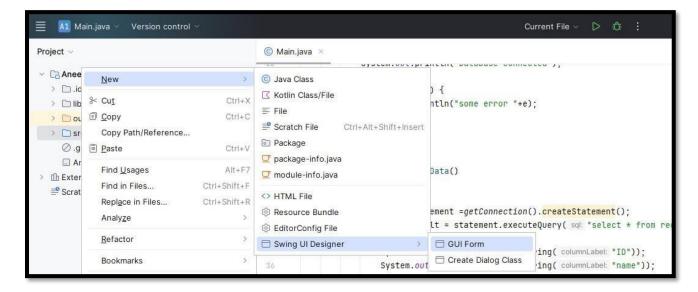
9 );
```

TABLE CONFIRMATION:

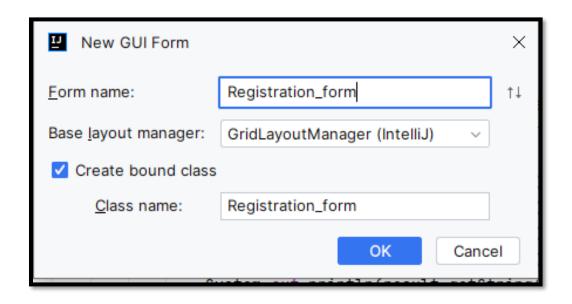


IJ SOFTWARE

CREATE SWING



SET FORM NAME



FORM



CODE:

```
© Main.java ×
       import java.sql.Connection;
       import java.sql.DriverManager;
       import java.sql.ResultSet;
       import java.sql.Statement;
       public class Main {
 6 D
 7 D
           public static void main(String[] args)
               getData();
           }
           1 usage
12 @
           public static Connection getConnection()
               try{
                   String driver = "com.mysql.cj.jdbc.Driver";
15
                   String databaseUrl ="jdbc:mysql://localhost:3306/java_tut";
                   String userName="root";
                   String password="fjwu";
                   Class.forName(driver);
19
                   Connection conn= DriverManager.getConnection(databaseUrl,userName,password);
                   System.out.println("Database connected");
                   return conn;
               }catch(Exception e) {
                   System.out.println("some error "+e);
```

```
© Main.java × © Registration_form.java × □ Registration_form.form

import java.sql.Connection;
import java.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.DriverManager;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.PreparedStatement;
import java.sql.PreparedStatement;

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| Import java.sql.PreparedStatement;
| Im
```

```
© Registration_form.java ×
                                        Registration_form.form
Main.java ×
               private JTextField textField1;
 11 頁
               1 usage
 12 []
               private JTextField textField2;
 13 ED
               private JTextField textField3;
 14 🗐
               private JTextField textField4;
               1 usage
 15 E)
               private JTextField textField5;
               1 usage
 16
               private JPasswordField passwordField1;
               1 usage
 17 Ab
               private JLabel ID;
               1 usage
 18 Ab
               private JLabel Name;
               1 usage
 19 Ab
               private JLabel Email;
```

```
20 Ab
              private JLabel Phone;
              1 usage
21 Ab
              private JLabel Address;
              1 usage
              private JLabel Password;
22 Ab
              1 usage
              private JPanel Confirm;
              1 usage
24 OK
              private JButton registerButton;
              2 usages
25
              private JButton cancelButton;
26
              no usages
              public Registration_form() {
28
                  cancelButton.addActionListener(new ActionListener() {
29
30 🛈
                       public void actionPerformed(ActionEvent e) {
31
                       }
                  });
```

```
36
    \triangleright
               public static void main(String[] args) {
37
                   JFrame frame = new JFrame( title: "Registation");
38
                   frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
39
40
                   // Create the labels
41
                   JLabel ID = new JLabel( text: "ID:");
42
                   JLabel Name = new JLabel( text: "Name:");
43
                   JLabel Email = new JLabel( text: "Email:");
                   JLabel Phone = new JLabel( text: "Phone:");
45
                   JLabel Address = new JLabel( text: "Address:");
46
                   JLabel Password = new JLabel( text: "Password:");
47
```

```
// Create the text fields
                  JTextField textField1 = new JTextField();
                  JTextField textField2 = new JTextField();
                  JTextField textField3 = new JTextField();
                  JTextField textField4 = new JTextField();
                  JTextField textField5 = new JTextField();
                  JPasswordField passwordField1 = new JPasswordField();
                  JButton cancelButton = new JButton( text: "Cancel");
                  // Create the submit button
                  JButton submitButton = new JButton( text: "Register");
                  submitButton.addActionListener(new ActionListener() {
                      @Override
62 O
                      public void actionPerformed(ActionEvent e) {
                          // Get the entered data
                          String id = textField1.getText();
                          String name = textField2.getText();
                          String email = textField3.getText();
                          String phone = textField4.getText();
67
                          String address = textField5.getText();
                          String password = new String(passwordField1.getPassword());
```

```
// Store the data in the database
                           try {
                               // Set up your database connection and prepared statement
                               String driver = "com.mysql.cj.jdbc.Driver";
                               String databaseUrl ="jdbc:mysql://localhost:3306/java_tut";
76
                               String userName="root";
                               String Password="fjwu";
78
                               Class.forName(driver);
                               Connection conn = DriverManager.getConnection(databaseUrl,userName,Password);
                               PreparedStatement pstmt = conn.prepareStatement(INSERT_QUERY);
81
                               pstmt.setString( parameterIndex: 1, id);
                               pstmt.setString( parameterIndex: 2, name);
                               pstmt.setString( parameterIndex: 3, email);
84
                               pstmt.setString( parameterIndex: 4, phone);
                               pstmt.setString( parameterIndex: 5, address);
87
                               pstmt.setString( parameterIndex: 6, password);
88
                               pstmt.executeUpdate():
```

```
// Close the connection and statement
pstmt.close();
conn.close();

// Optional: display a success message
JOptionPane.showMessageDialog(frame, message: "Data saved successfully!");
catch (Exception ex) {
    // If there's an error, display an error message
    ex.printStackTrace();
    JOptionPane.showMessageDialog(frame, message: "Error: Failed to save data.");
}

JOptionPane.showMessageDialog(frame, message: "Error: Failed to save data.");
}

}
```

```
// Create the panel
106
                   JPanel panel = new JPanel(new GridLayout( rows: 7, cols: 2));
                   // Add components to the panel
                   panel.add(ID);
                   panel.add(textField1);
                   panel.add(Name);
                   panel.add(textField2);
                   panel.add(Email);
114
                   panel.add(textField3);
                   panel.add(Phone);
116
                   panel.add(textField4);
                   panel.add(Address);
                   panel.add(textField5);
118
119
                   panel.add(Password);
                   panel.add(passwordField1);
                   panel.add(submitButton); // Add the submit button
           panel.add(cancelButton);
                   // Set panel as the content of the frame
                   frame.getContentPane().add(panel);
```

```
panel.setBackground(Color.pink);

// Set the size and make the frame visible

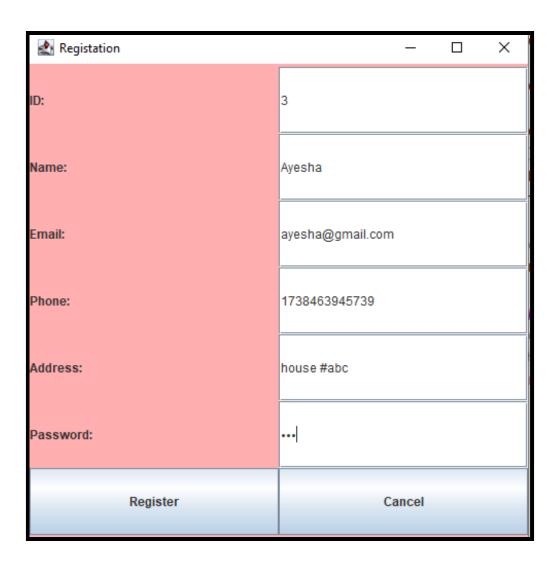
frame.setSize(width: 500, height: 500);

frame.setVisible(true);

130

}}
```

OUTPUT:





SHOW TABLE DATA IN MYSOL DATABASE

